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The invention relates to the electroplating, namely, to the electrolytical iron coating deposition, and may be used in the mechanical and aircraft engineerings, repare processes for machines elements restabilation.

The summary of the invention consists in the fact that the electrolyte containing, g/l, 200...600 of iron(II) chloride, 1,5...2,0 of hydrochloric acid, additionally contains 60...100 of aluminium sulfate and 2,0...4,0 of thiosemicarbazidediacetic acid as multifunctional stabilizer of complexon-hydrazines class, providing increasing the stability to the oxidation of Fe(II) as well the reagent economy at the expense of the repeated use of stable electrolyte. The process of iron coating is carried out at the current density of 15...20 A/dm2, pH solution of 0,8...1,0, temperature of 40oC. The electrolyte allows to obtaine the coatings of high quality, having the increased corrosion resistance.

The technical result of the invention consists in the formation of the stable iron coordination compounds with thiosemi-carbazidediacetic acid.

Claims: 1